

Defense Authorization Requests for Fiscal Year 2010

Proposed Recipient: Fort Drum
Address: Fort Drum, New York 13602
Amount of Request: \$8,200,000.
Project Description: Military Construction Project-- All Weather Marksmanship Facility. Currently, Fort Drum has only one operational All Weather Marksmanship Facility. The project is required to provide year round live fire training to more efficiently support soldiers in meeting weapons proficiency and qualification standards, and minimize the amount of time required to complete training. The Light Infantry Doctrine and the missions of the 10th Mountain Division require higher than normal levels of marksmanship proficiency and fire discipline.

Proposed Recipient: Fort Drum Regional Health Planning Organization (FDRHPO)
Address: 120 Washington Street, Suite 302, Watertown, NY 13601
Amount of Request: \$430,000.
Project Description: Funding will enable the FDRHPO to hire the necessary staff and conduct the required assessments.

Proposed Recipient: Clarkson University and ITT
Address: Clarkson University (8 Clarkson, Potsdam, NY 13699) and ITT AES (474 Phoenix Drive Rome. NY 13441)
Amount of Request: \$5,000,000.
Project Description: Cyber Attack and Security Environment (CASE): Operating effectively in cyberspace requires a Cyber Command and Control (CC2) system to synchronize cyber attack operations, facilitate analysis of attack results including measures of effectiveness, and deconflict friendly use of cyberspace. The objective of ITT's proposed effort is to conceptualize and demonstrate the technologies necessary to systematically coordinate, plan, and execute offensive cyber campaigns; determine effects associated with an offensive cyber weapon; monitor/evaluate events that occur in cyberspace; and ultimately achieve situational awareness of cyberspace with an overall goal of achieving dominance within that critical realm. Alpha and beta testing throughout the lifecycle of this project will occur at a secure military installation in upstate New York. A significant partner in this effort is Clarkson University through its complex networks group, its biometrics group, critical electric power/large scale systems faculty, and cryptographic protocol analysis researchers, who will provide subject matter expertise and project research.

Proposed Recipient: Trudeau Institute and Naval Health Research Center
Address: Trudeau Institute (154 Algonquin Avenue Saranac Lake, NY 12983) and Naval Health Research Center (140 Sylvester Road San Diego, CA 92106)
Amount of Request: \$8,000,000.
Project Description: U.S. Navy Pandemic Influenza Vaccine Program: Enhancement of Influenza Vaccine Efficacy. Prevention of seasonal and pandemic influenza remains a significant unmet need for the US armed forces. Influenza in active duty personnel and dependents compromises force readiness and impacts training. The proposed project will advance the

development of novel techniques for enhancing vaccine efficacy to promote Force Readiness and general health of the members of the Armed Services and their dependents.

Proposed Recipient: Syracuse Research Corporation
Address: 7502 Round Pond Road
North Syracuse, NY 13212
Amount of Request: \$5,000,000.
Project Description: Foliage Penetrating, Reconnaissance, Surveillance, Tracking, and Engagement Radar (FORESTER). U.S. Forces currently have no radar capability to detect and track activity under foliage. FORESTER is an airborne sensor system that provides standoff and persistent wide-area surveillance of dismounted troops and vehicles moving through foliage. This Phase II request will provide funding necessary to help transition FORESTER to the User community, and apply the technology to additional platforms and U.S. border security applications, providing U.S. forces a critical new capability to detect and track activity under foliage.

Proposed Recipient: Legend Technologies
Address: 1541 Front Street, Keeseville, New York
Amount of Request: \$2,000,000.
Project Description: Remote Sighting System: Currently available optical technologies are not optimal for the various "Robotic" platforms currently being fielded. These platforms are only as good as their ability to "See." The final funding installment will allow for the outfitting of production facility in Keeseville, New York for manufacture of the Remote Sighting System from a domestic source.

Proposed Recipient: Welch Allyn, Inc.
Address: 4341 State Street Road, Skaneateles Falls, New York 13152
Amount of Request: \$5,000,000.
Project Description: Personal Status Monitor (Nightengale). Welch Allyn is actively working on a project to monitor the health status of a soldier, remotely communicating the data to obtain the most appropriate level of care in a forward combat environment, which is essential for medical and military strategic decision-making. The Research and Development monies obtained for this project will allow Welch Allyn to further develop its smart sensing technologies. These technologies provide on-body sensing of physiologic parameters that can be relayed to a remote server by means of a series of wireless relay devices for notification in the case of a critical or life threatening event. Specifically, the technology consists of wearable sensors with RF communication to observation stations, doctor's offices, electronic patient records, and hospital information systems, providing anywhere, anytime access to real-time or archived patient information. Applications include deployment on individuals or groups of individuals who are subject to catastrophic physiologic events such as military personnel, public safety personnel and those with cardiovascular disease.

Proposed Recipient: Rockwell Collins, Inc
Address: Rockwell Collins, Address: 33 Lewis Road, Binghamton, NY 13905
(Hqs: 400 Collins Rd., Cedar Rapids, IA 52498)
Amount of Request: \$2,000,000.
Project Description: Common Avionics Architecture System (CAAS-PVI) CH-47F. The project will help reduce pilot workload to assist Army pilots and crewmembers as they prosecute the war on terror. This proposal is to make timely long lasting changes to the CAAS cockpit of the CH-47F aircraft through an effective Pilot Vehicle Interface program. The results of such activity will reduce aircrew workload and deliver a safer more usable system to the field. Once completed, the CAAS cockpit will be suitably aligned for future integration into all conventional Army rotary wing aircraft.

Proposed Recipient: John Deere
Address: 2000 John Deere Run, Cary, NC 27513
Amount of Request: \$2,000,000.
Project Description: The M-Gator has proven to be a key asset to our troops around the globe in support of the Global War on Terror and provides a unique capability that does not exist in the Army equipment inventory. M-Gators fill critical equipment shortages in Infantry, Aviation, Military Police, Combat and Field Service Hospitals, Special Operations, and other Combat Support and Combat Service Support units. The M-Gator enjoys an enviable reputation because of its ruggedness, load-carrying capability, and reliability. It has proven to be a key asset to our troops around the globe in support of the Global War on Terror and provides a unique capability that does not exist in the Army equipment inventory. Army units, including the 10th Mountain Division, have never had sufficient operational funds to replace their war-torn M-Gator fleet. The request is to provide M-Gators to the 10th Mountain Division.

Proposed Recipient: Lockheed Martin
Address: 497 Electronics Parkway, Syracuse, NY 13088
Amount of Request: \$4,700,000.
Project Description: Future Generation Thinline Towed Array (TB-29A). Towed arrays are the primary long range ASW sensor systems for search, acoustic intelligence collection, and self-defense on today's submarines. The Thinline TB-29 series Submarine Towed Array is the premier sensor in the submarine fleet today. The TB-29A delivers enhanced performance at half the acquisition and life cycle support costs of its predecessors. It also uses a lightweight tow cable allowing operation of the array in a littoral environment. The design of the TB-29A has not achieved the desired reliability for optimum fleet operations. Telemetry components and connectors are primary failure points after frequent reeling in and out of the submarine. A modernized design will result in a new, low risk thinline submarine towed array that provides significant reliability improvements, equal performance and lower life cycle cost compare to current arrays.

Proposed Recipient: Sensis Corporation
Address: 85 Collamer Crossings, East Syracuse, NY
Amount of Request: \$2,000,000.
Project Description: SOF Craft Integrated Backbone. Most SOF craft vehicles have limited space available for hardware but continue to require additional systems to complete their missions. The SOF Craft Integrated Backbone will provide an integrated data processing system in order to consolidate the number of computer processors on the vehicle, thus resulting in a reduction of size, weight, and power (SWAP) requirements for the craft. The program will significantly reduce the physical footprint of the data processing system on the craft while maintaining the critical flexibility needed to provide for future technology upgrades. FY2010 funding is being requested to leverage current sensor technology and open architecture COTS processing with vast experience integrating dispirit sensor systems to command and control stations. The SOF Craft Integrated Backbone will provide SOCOM with a solution prototype for full scale testing within 12 months.